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(12) Patent:

(54) BILLIARD CUE

(54) QUEUE DE BILLARD

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ABSTRACT:

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*** Note: Data on abstracts and claims is shown in the official language in which it was submitted.

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This invention relates to certain new and useful improvements in Cues used to impel the balls in billiard and other games.

Important objects of the invention are to provide a cue which is capable of being readily separated into sections and which is provided with a hollow butt portion forming a chamber in which the shaft portion of the cue may be conveniently housed, thereby providing compactness to facilitate the handling, packing and transportation of the cue..

Another object of the invention is to provide a sectional cue, of the type stated, in a manner as hereinafter set forth which includes replaceable section connecting elements capable of maintaining the cue rigid and unyielding when assembled regardless of the frequency that said sections are separated and assembled. In sectional cues now commonly in use the utility of the cue is completely destroyed when the section connecting elements become worn from use, because preventing a positive rigid connection eminently essential for the proper use of a cue.

Further objects of the invention are to provide a cue of the character specified which includes buffer means for mitigating the annoyance caused by the prevalent habit of players of thumping the butt end of the cue upon the floor and further to protect the cue butt from injury due to such thumping action, which is simple in its construction and arrangement, strong, durable and efficient in its use, attractive in appearance and comparatively inexpensive to manufacture.

With these and other objects in view, that will appear in the following description, our present invention is a cue that embodies the peculiar features of construction and novel arrangement of parts hereinafter explained in detail, specifically pointed

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out in the appended claims, and illustrated in the accompanying drawing, which forms a portion of the specification and wherein like numerals of reference designate corresponding parts throughout the several views, and in which:-

Figure 1 is a longitudinal sectional view of a cue in accordance with our invention.

Figures 2 and 3 are views illustrating modified forms thereof, the former in cross section and the latter with portions in cross section.

Referring in detail to the drawing Figure 1 illustrates a cue comprising a butt section 1 and a shaft section 2, which in combination form a straight tapering cue of the usual regulation contour.

The butt section 1 consists of a hollow body member 3, forming a chamber 4, and is preferably constructed from light metal, namely, aluminum of the like. The upper end of the chamber 4 is open, while the lower end thereof is formed with a bottom 5 of considerable thickness.

The body member 3 is enclosed in a casing 6, which is preferably made from bakelite or any other suitable composition material and molded around the body member 3; or the case 6 may be constructed in the form of a tube of suitable material and slipped over the body member 3.

The upper end 7 of the body member 3 projects above the upper end of the casing 6 and is threadably engaged, as at 8, by the buffer casing 9. The lower end 10 of the body member 3 extends below the lower end of the casing 6 and is threadably engaged, as at 11, by a ferrule 12. The outer diameters of the buffer casing 9 and the ferrule 12 are such as to form an unbroken symmetrical continuity, relatively to the periphery of the casing 6.

The buffer 13, constructed from rubber and semi-spherical

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in contour, is detachably fixed in the buffer casing 9 by the turned in upper edges 14 of the latter, and its engagement with the ring 15. The ring 15 is formed with peripheral threads in engagement with the threaded inner wall of the buffer casing 13. A set screw 13', extending through the wall of the buffer casing 13 and engaging the body member 3, is employed to lock the buffer elements against accidental release upon the body member 3.

The shaft section 2 comprises a hollow body member 16, enclosed in a casing 17. The member 16 and casing 17 are made from materials corresponding to those employed in the construction of the butt section 1 above described.

The lower end of the body member 16 is provided with a tip 18 of the usual construction and the upper end 19, thereof projects above the upper end of the casing 17 and is threadably engaged as at 20, by a ferrule 21. The periphery of the ferrule 21 is in tapering alinement with the peripheral surfaces of the ferrule 12 and the upper end of the casing 17, contiguous thereto.

The faces of the abutting ends 10 and 19 of the body members 3 and 16, respectively, are each provided with an embedded sleeve 22 having outer threads to provide threaded engagement, as at 23, with respective ends 10 and 19.

The sleeves 22 are mounted in respective parts in accurate vertical alinement, relatively to each other, and normally are permanently fixed in position. It will be noted, however, that the sleeves 22 may be readily replaced if found necessary in practice.

The sleeves 22 are formed with internal threads and jointly engage the stud bolt 24, which latter forms the connecting medium for securing the butt section 1 and the shaft section 2 together. The stud bolt 24, as illustrated, is preferably formed with respective one-half portions thereof provided with right

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and left hand screw threads, but it is obvious that a stud bolt having but one continuous kind of screw threads may be also successfully employed. However, with this latter construction it could not be determined in which section the stud bolt would remain when said sections are separated, while in the former construction this could be determined by holding one section and turning the other, or vice versa, as desired.

The chamber 4 formed in the body member 3, is of sufficient size to house the entire shaft section 2 of the cue, thereby providing compactness to facilitate handling, packing or transportation. The hollow shaft section 2 provides for the reduction in weight of the cue and its economic manufacture by the saving of material.

The modified form of the device illustrated in Figure 2 of the drawing is identical in construction as that above described relatively to the preferred form with the exception that the butt section 25 and shaft section 26 of the former are constructed without an additional outer casing and are formed to provide for the engagement of the buffer casing 9 and ferrules 12 and 21 at respective parts thereof.

Figure 3 illustrated a cue having a butt section 27 and a shaft section 28 formed of solid material. In other respects the construction is identical to that described relatively to the device shown in Figure 2 of the drawing.

The butt and shaft sections of the cues illustrated in Figure 2 and Figure 3, respectively, may be constructed from any suitable material to best meet conditions found in practice, namely wood, metal, fibre, bakelite or other composition materials.

What we claim is:-

1. A cue comprising a butt section, a shaft section, means threadably engaging the abutting ends of said sections for connecting said sections, said butt section provided with a chamber, and a buffer element mounted at the end of said butt section and forming a closure member for said chamber.

2. A cue comprising a butt section, a shaft section, means engaging the abutting end of said sections for connecting said sections, each of said sections including a hollow body member enclosed in a casing.

3. A cue comprising a butt section, a shaft section, means engaging the abutting end of said sections for connecting said sections, each of said sections including a hollow body member enclosed in a casing, and a buffer element carried by said butt section.

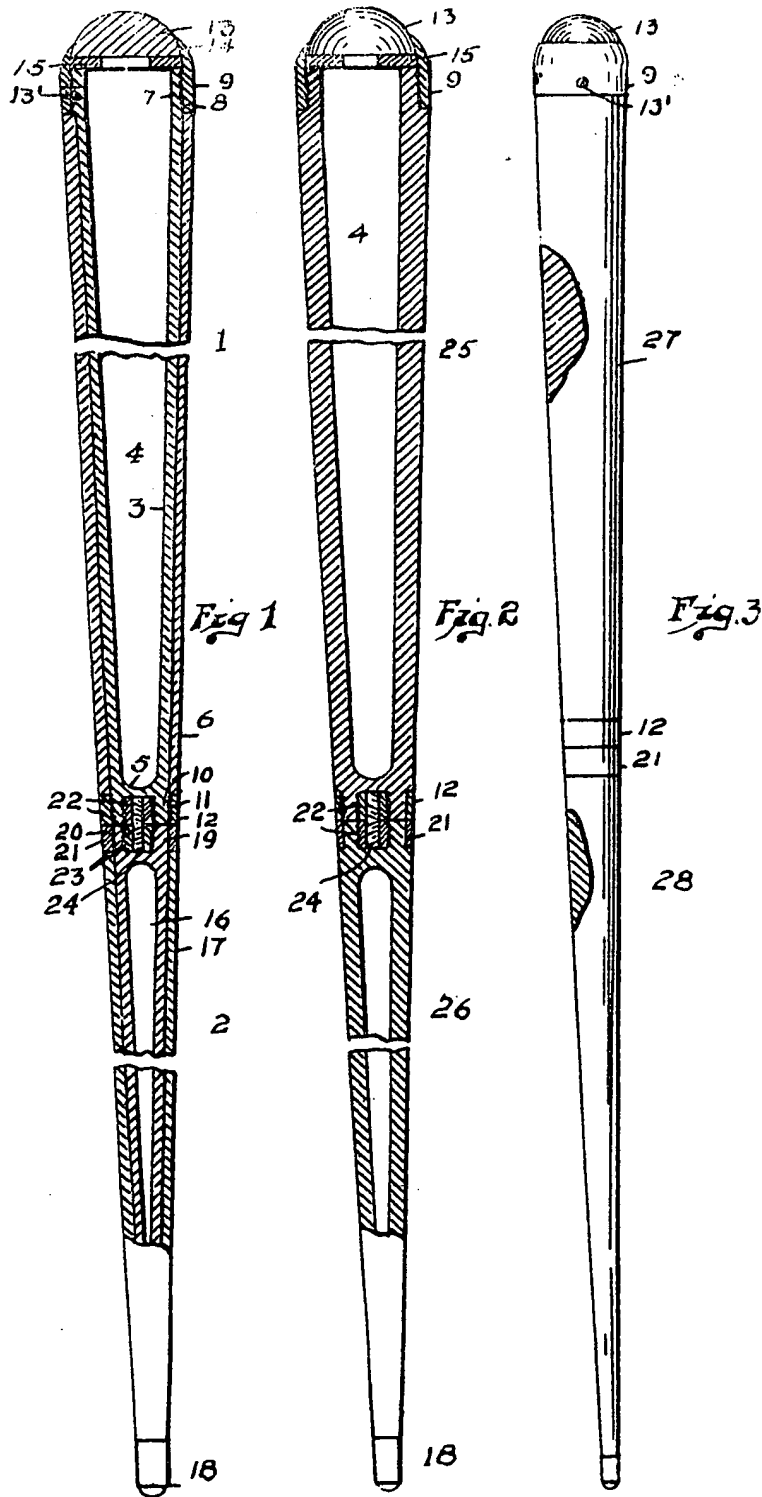
4. A cue comprising a butt section, a shaft section, a sleeve mounted in each of the abutting ends of said sections, a bolt threadably engaging said sleeves for connecting said sections, said butt section provided with a chamber, and a buffer element mounted on the butt section and forming a closure member for said chamber.

5. A cue for the purpose set forth comprising in combination, a butt section formed with a chamber, a shaft section, a ferrule threadably mounted on each of the abutting ends of said sections, each of the said abutting ends further provided with a sleeve threadably embedded therein, a bolt in threaded engagement with each of said sleeves for detachably connecting said sections together, a tip mounted on the lower end of shaft section, a buffer element threadably mounted on the upper end of the butt section, and forming a closure member for the said chamber, said buffer element including a resilient member detachably mounted therein, and means carried by said element and engaging said butt section for locking said buffer element to the said buffer section.

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6.. A cue for the purpose set forth comprising in combination, a butt section formed to provide a chamber, a shaft section, inter-engaging threaded means for detachably connecting said butt section with the shaft section, and a buffer element carried by the butt section and forming a closure member for said chamber.

7.. A cue comprising in combination, a butt section, a shaft section, each of said sections consisting of a hollow body member having a casing molded thereon, said hollow body member of the butt section forming a chamber, a ferrule threadably mounted on each of the abutting ends of said sections, each of said abutting ends further provided with a sleeve threadably mounted therein, a bolt in threaded engagement with each of said sleeves for detachably connecting said sections together, a tip mounted on the lower end of the shaft section, a buffer element threadably mounted on the upper end of the butt section and forming a closure member for the said chamber, said buffer element including a resilient member detachably mounted therein, and means carried by said element and engaging said butt section for locking said buffer element to the said butt section.



WITNESSES
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Certified to be the drawing referred
 to in the specification herewith annexed.
Pittsburgh, Pa., June 14th 1922

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